

ODP # 81-956

SG-81/18

14 JUL 1981

MEMORANDUM FOR: Chief, ADP & Engineering Branch,  
Office of Logistics, DDA

THROUGH: Director of Data Processing, DDA

25X1 FROM: [REDACTED]  
Chief, Systems Group, DO/IMS

SUBJECT: Request for Procurement Action to Complete  
Upgrade of DO/IMS Data Entry System

25X1 REFERENCE: [REDACTED] 23 July 1980

1. As noted in paragraph 10 of Reference (copy attached), we divided the upgrade of our Four-Phase system to meet requirements for a pouch control application into two phases. The first phase has been accomplished and funds are now available for the remainder of the equipment needed to complete the upgrade.

2. The attached Form 88 itemizes the hardware not ordered in Phase I. It is requested that these items be purchased from Four-Phase Systems, Inc. As indicated in Reference, only Four-Phase manufactures peripherals compatible with its systems. Questions may be addressed to [REDACTED] SG/IMS, extension [REDACTED]

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Attachments:  
As stated

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WARNING NOTICE  
INTELLIGENCE SOURCES  
AND METHODS INVOLVED

25X1

23 JUL 1980

MEMORANDUM FOR: Chief, ADP & Engineering Branch,  
Office of Logistics, DDA

THROUGH: Director of Data Processing, DDA

FROM:   
Chief, Information Management Staff, DDO

SUBJECT: Upgrade of Four-Phase Data Entry Systems -  
Justification for Sole Source

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1. It is requested that procurement action be initiated for Phase I of an upgrade of the DDO/IMS Four-Phase Data Entry Systems. This memorandum contains a definition of requirements for the system's upgrade and sole source justification.

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2. A study was conducted to determine the feasibility of using the Four-Phase System to meet the data entry requirements of the Pouch and Dispatch System (PADS) system. The study indicated that such an approach was feasible. The study team, using current Four-Phase software and hardware, developed a limited pilot model of the PADS project. The study showed, however, that to meet the full range of PADS requirements, some additional Four-Phase hardware and software is needed, as indicated in the following paragraph.

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3. To implement the Pouch and Dispatch System and maintain the existing system flexibility, the following upgrade is required:

- a. Install the IV/90 MOD2 memory units on each Four-Phase system.
- b. Install a 600 lpm printer with a switchable capability between the two Four-Phase systems.
- c. Install 18 additional terminals to be used by the PADS project.
- d. Install a second 8261 disc drive on each Four-Phase system.

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e. Install 40K of memory in the NP/80 disc drive controller. ☐

4. The IV/90 MOD2 memory unit will provide each system with the capability to handle concurrent software packages and maintain the current performance. The additional proprietary software package will be used primarily to meet the PADS project's heavy output requirements. ☐

5. The addition of the 600 lpm printer will meet the printing requirement for 300 to 500 pouch manifests per day. The printers will also handle the printing of the classified and unclassified address labels. Other summary reports will be directed to the line printer on an as needed basis. ☐

6. The 18 terminals will be used in the PADS project work area. Ten of the 18 terminals will be switchable between the two Four-Phase systems. This will provide a 62% backup system without the necessity of physically moving to another data entry terminal. ☐

7. The additional 8261 disc drive will provide the PADS project with the required six months of online user data storage. The additional disc drive will provide a viable means to provide for frequent system backups and thus minimize the system downtime. ☐

8. The NP/80 disc controller with additional buffers and format storage will reduce the anticipated throughput degradation. The benefit of the increased memory is the reduction in disc seeks for heavily used application formats. ☐

9. Current Datapro Research Corporation publications reveal Four-Phase as being the sole manufacturer of the chips and devices necessary for this proposed upgrade. ☐

10. For budgetary reasons, the upgrade has been broken into two phases. The attached Form 88 reflects the equipment items required in Phase I. Your assistance is requested in acquiring this equipment from the Four-Phase Corporation. A request for purchase of Phase II equipment will follow at a later date. Should any questions arise, please contact ☐

Attachment:  
Form 88

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